



# Renewable Gas

A pathway  
to a cleaner  
energy future

# Our Low Carbon Vision

Gas is essential to our economy and modern lifestyles, providing nearly a quarter of Australia's total energy supply. Overall in Australia natural gas is currently cleaner than electricity delivered by the grid<sup>1</sup>, but there's more we can do to deliver emissions reductions, while also contributing to energy security and ensuring costs remain as low as possible.

Renewable and carbon neutral gases will help our customers and Australia achieve sustainability goals, whilst retaining access to the benefits of natural gas - reliable and affordable energy.

At AGIG, we are committed to sustainable gas delivery today, and tomorrow. Our Low Carbon Vision targets 10% renewable gas (such as hydrogen and biomethane) in our distribution networks by no later than

2030, with full decarbonisation of our networks by 2040 as a stretch target, and by no later than 2050.

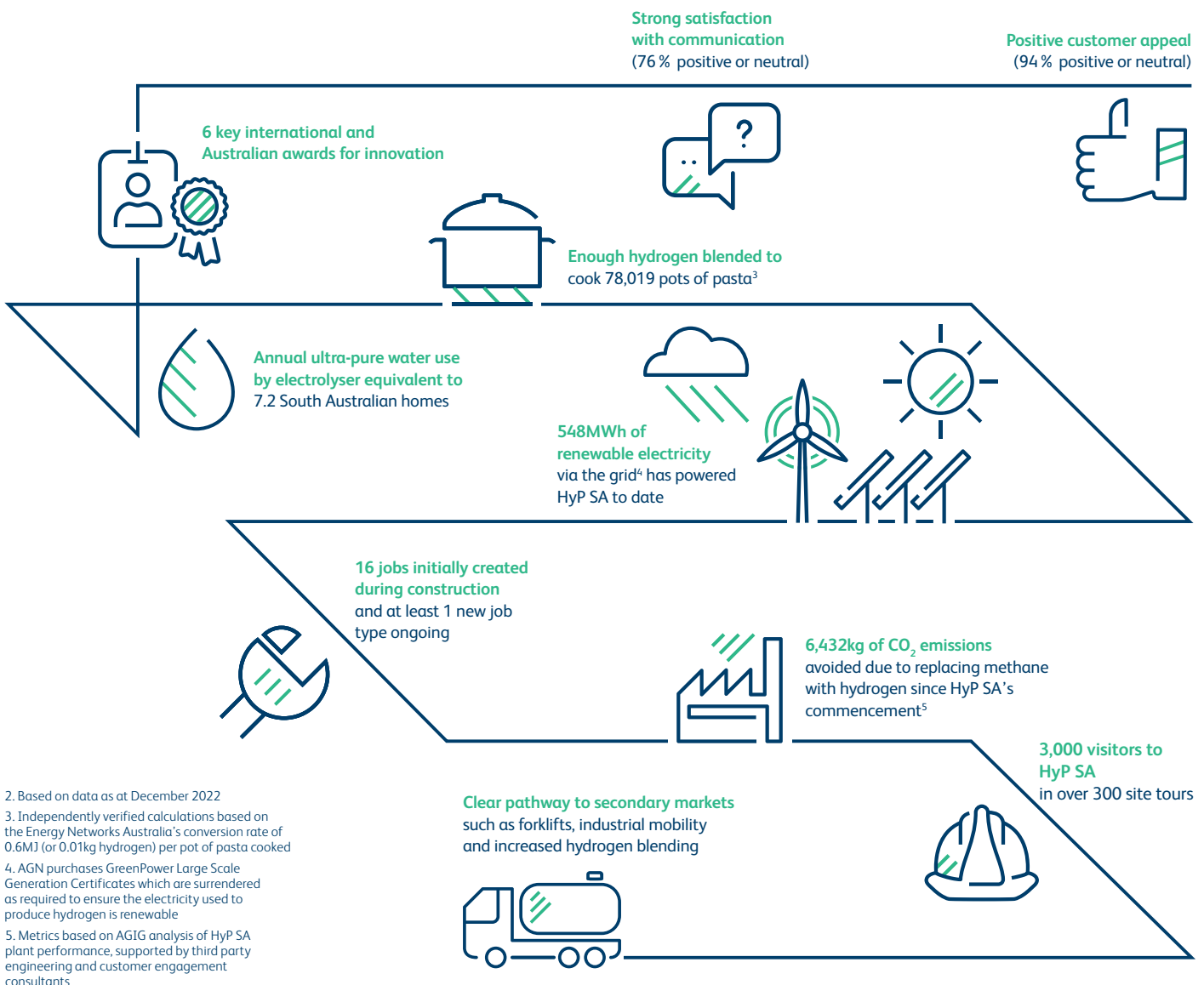
For our midstream and transmission assets we will continue to deliver for our customers. This means providing the infrastructure solutions required for their businesses, including by working with them to transition to natural gas and through renewable gas solutions, such as blended and pure renewable gas products.

To achieve this, we are partnering with governments and industry to deliver renewable hydrogen and biomethane projects across the country and across the value chain.

1. ENA report on Reliable and clean gas for Australian homes  
<https://www.energynetworks.com.au/resources/fact-sheets/reliable-and-clean-gas-for-australian-homes-2/>

## Hydrogen Park South Australia

### Key outcomes since May 2021 operations<sup>2</sup>



2. Based on data as at December 2022  
 3. Independently verified calculations based on the Energy Networks Australia's conversion rate of 0.6MJ (or 0.01kg hydrogen) per pot of pasta cooked  
 4. AGN purchases GreenPower Large Scale Generation Certificates which are surrendered as required to ensure the electricity used to produce hydrogen is renewable  
 5. Metrics based on AGIG analysis of HyP SA plant performance, supported by third party engineering and customer engagement consultants



# We are Australian Gas Infrastructure Group (AGIG)

one of Australia's largest gas infrastructure businesses.

We deliver gas to two million customers across every Australian mainland state and the Northern Territory, through 35,000km of distribution networks, 4,300km of gas transmission pipelines and 60 petajoules of gas storage capacity.

We own and operate infrastructure that delivers gas to Australian homes, businesses and communities.

We also deliver and store gas that supports the Australian economy for power generators, mines and manufacturers.

We are taking active steps towards sustainable gas delivery. In 2021, we delivered Australia's largest renewable hydrogen electrolysis facility: Hydrogen Park South Australia and we are currently developing several other renewable gas projects.

Our Vision is to be the leading gas infrastructure business in Australia. We will achieve this by delivering for our customers, being a good employer and being sustainably cost efficient.

## Dampier Bunbury Pipeline

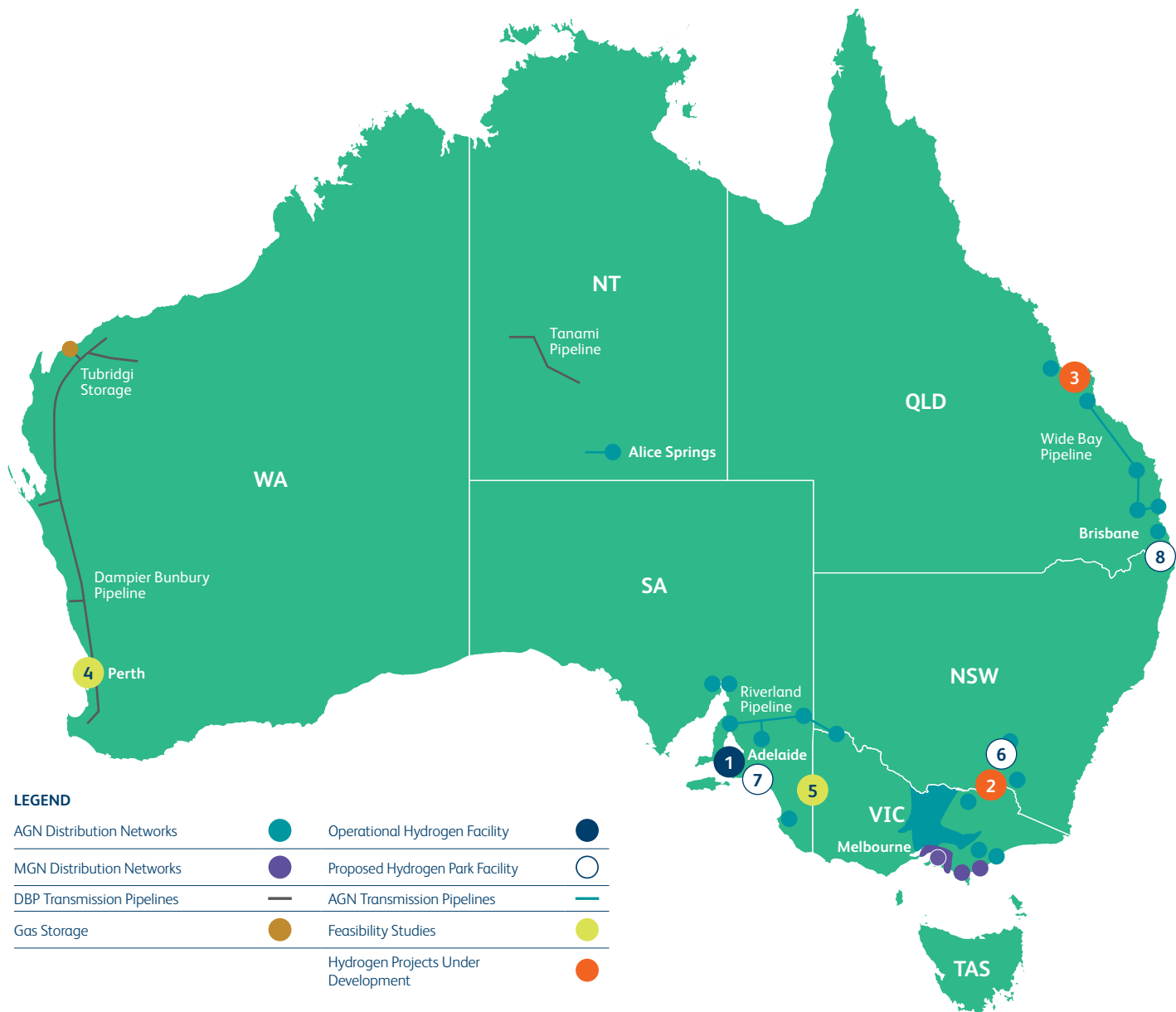
DBP operates Western Australia's principal gas transmission system. Australian Gas Infrastructure Developments (AGID) operates unregulated transmission pipelines, gas processing and storage in Western Australia and the Northern Territory.

## Multinet Gas Networks

MGN operates gas distribution infrastructure in Victoria.

## Australian Gas Networks

AGN operates gas infrastructure (distribution and transmission pipelines) in Victoria, South Australia, Queensland, New South Wales and the Northern Territory. It also operates Australia's largest renewable hydrogen production facility, Hydrogen Park South Australia.



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## Hydrogen Park South Australia

HyP SA is an Australian-first project producing renewable hydrogen through a 1.25MW electrolyser and supplying up to a 5% hydrogen blended gas to almost 4,000 homes and businesses on our existing gas network in Adelaide. First production occurred in 2021, supply to industry through tube and trailer commenced in 2022.

HyP SA was supported by grant funding from the South Australian Government.



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## Hydrogen Park Murray Valley

HyP Murray Valley is supported by the Australian Renewable Energy Agency (ARENA) and the Victorian Government. This 10MW facility will produce renewable hydrogen, replacing up to 10% natural gas to more than 40,000 homes and businesses and 20 industrial customers.

Production is expected to commence in 2025.



3

## Hydrogen Park Gladstone

HyP Gladstone continues AGIG's hydrogen leadership by extending our renewable gas footprint into Queensland and delivering Australia's first whole of gas network decarbonisation project with volumes up to 10% renewable gas.

It is expected that supply to around 770 residential, business and industrial customers will commence by the end of 2023. HyP Gladstone is supported by the Queensland Government.

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## Western Australian Feasibility Study

Completed in 2021, this study determined how the Dampier Bunbury Pipeline can introduce hydrogen into its mix. As a result of this study, there is now a clear pathway for declaring a pipeline section as suitable for use with hydrogen/natural gas blends. This study was supported by the Western Australian Government.

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## Australian Hydrogen Centre

A joint industry research centre undertaking feasibility studies in South Australia and Victoria, for extending from 10% hydrogen blends in the gas network to a 100% conversion. In 2022 our Regional Town Studies were published, with further feasibility and knowledge sharing reports to be published in 2023.

The Australian Hydrogen Centre is supported by Commonwealth, South Australian and Victorian Governments.

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## Proposed - Hydrogen Park Wagga Wagga

HyP Wagga Wagga is a proposed 10MW+ facility to be located in the Wagga Wagga Special Activation Precinct, in regional New South Wales.

This facility will produce renewable hydrogen for blending at volumes of up to 10% into the local gas distribution network, supplying around 23,500 residential, commercial and industrial customers.

Renewable hydrogen will also be available to supply power generation and existing industrial hydrogen users, as well as heavy vehicles along key interstate freight routes in the region.

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## Proposed - Hydrogen Park Adelaide

HyP Adelaide is a proposed 40MW+ facility to be located in the northern suburbs of Adelaide, South Australia.

This facility will produce renewable hydrogen for blending at volumes of up to 10% into the Adelaide gas network, with the ability to reach over 350,000 residential, commercial and industrial customers.

In addition, renewable hydrogen will be available for the major industrial, mobility and power generation end users within the northern Adelaide suburbs, enhancing the ability for those users to decarbonise their operations.

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## Proposed - Hydrogen Park Brisbane

HyP Brisbane is a proposed 10MW+ facility to be located on Bulwer Island, within the Brisbane suburb of Pinkenba, Queensland.

This facility will produce renewable hydrogen for blending at volumes of up to 10% into the Brisbane gas network, which supplies approximately 91,000 residential, commercial and industrial customers, as well as hydrogen for use in mobility and industry.

The project aims to create a hydrogen backbone to facilitate the decarbonisation efforts of industry, and is well positioned near major infrastructure to support the the Brisbane 2032 Olympic Games.

## Proposed - Various Biomethane Facilities

We are partnering with various project proponents across Australia to connect biomethane facilities to the distribution networks.

# >2.1m

## Customers

# 609PJ

## Natural Gas Delivered

# 4,317km

## Transmission

# 35,850km

## Distribution

# 60PJ

## Gas Storage

# 1.25MW

## Electrolysis

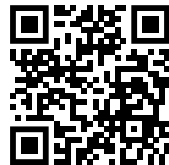
As at 31 December 2022



### **Acknowledgement of Country**

AGIG acknowledges the Traditional Custodians of the lands upon which we live and operate, and we pay our respects to Elders past, present and emerging.

We recognise Aboriginal and Torres Strait Islander people's historical and ongoing connection to land and waters, and we embrace the spirit of reconciliation.



### **To learn more about renewable gas**

Go online and visit  
[agig.com.au/renewable-gas](https://agig.com.au/renewable-gas)  
or scan here